

## **ATTACHMENT D**

**“xDSL Capable Loops: Upcoming Enhancements to Current Loop Qualification and Order Processes – Arkansas, Kansas, Missouri, Oklahoma, Texas”**

**Date:** March 14, 2000

**Number:** CLEC00-062

**Contact:** Southwestern Bell Account Manager

The purpose of this accessible letter is to identify the modifications to xDSL pre-order and order processes resulting from the upcoming enhancements to DataGate, EDI and Verigate interfaces. All the current processes will remain unchanged unless specifically noted in this letter.

All of the changes discussed in this letter will be effective with the March 18, 2000 release.

**Loop Qualification**

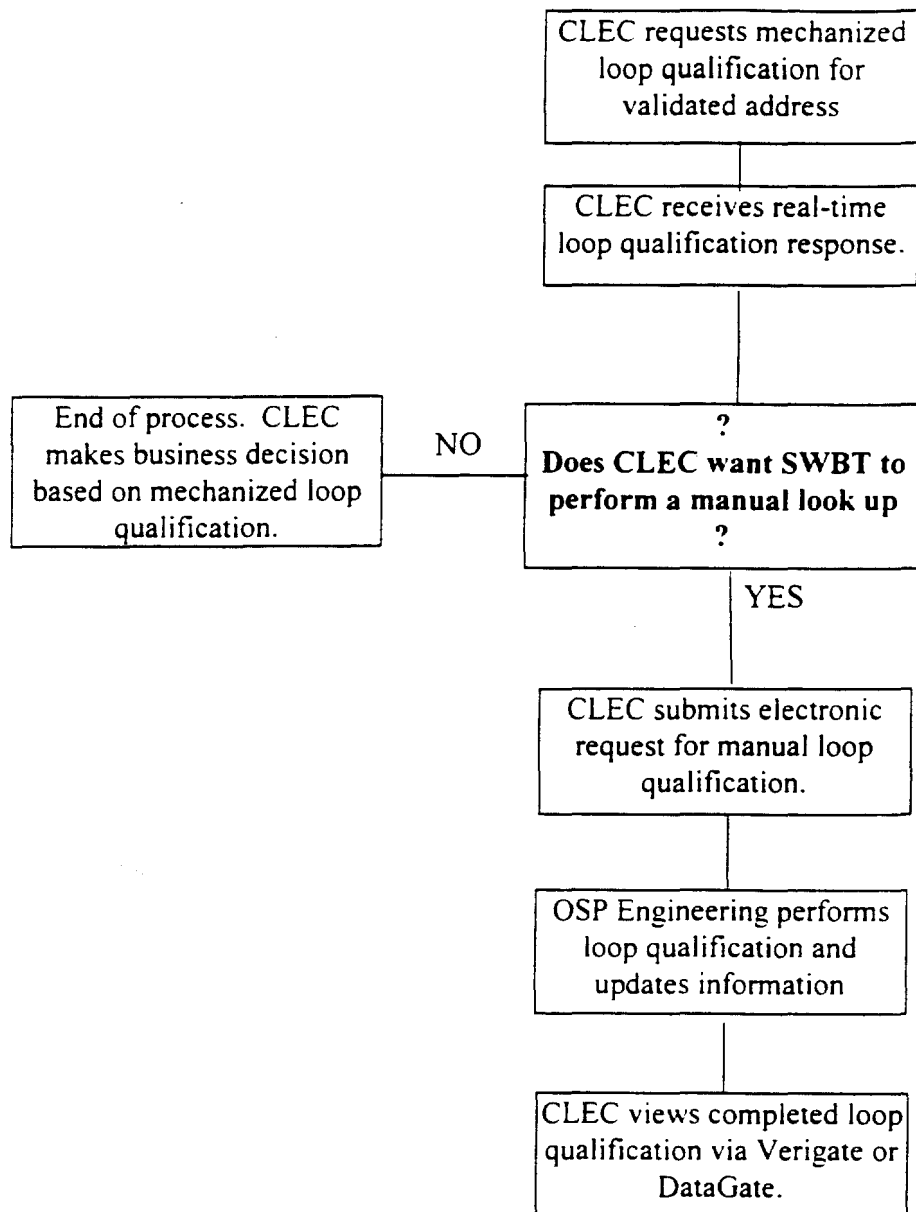
As of the March 18, 2000 release, loop qualification will no longer be a completely manual process. CLECs will have the ability to obtain loop make-up information based upon the standard loop design for the longest loop in the end user's distribution area through Verigate and DataGate. CLECs will be able to place any xDSL capable loop orders based upon this information. There will be no requirement for a manual look-up of loop make-up information.

In addition, CLECs will also have the ability to request that a manual loop qualification be performed using these same interfaces. CLECs will no longer send manual loop qualification requests to the LSC, but will submit them directly through Verigate or DataGate.

A tracking number will not be provided on a completed loop qualification as of March 18, 2000.

The following flow chart illustrates the new loop qualification flow.

**UNE xDSL-Capable Loop Qualification Process \***



## Ordering

With the introduction of mechanized loop qualification, SWBT will automatically perform a mechanized loop qualification upon the receipt of a valid LSR. As a result, the CLEC will no longer need to indicate via a tracking number whether or not a loop qualification has been performed on a pre-order basis. This also eliminates issues surrounding the expiration of the loop qualification results as a new loop qualification will be performed each time an LSR is submitted.

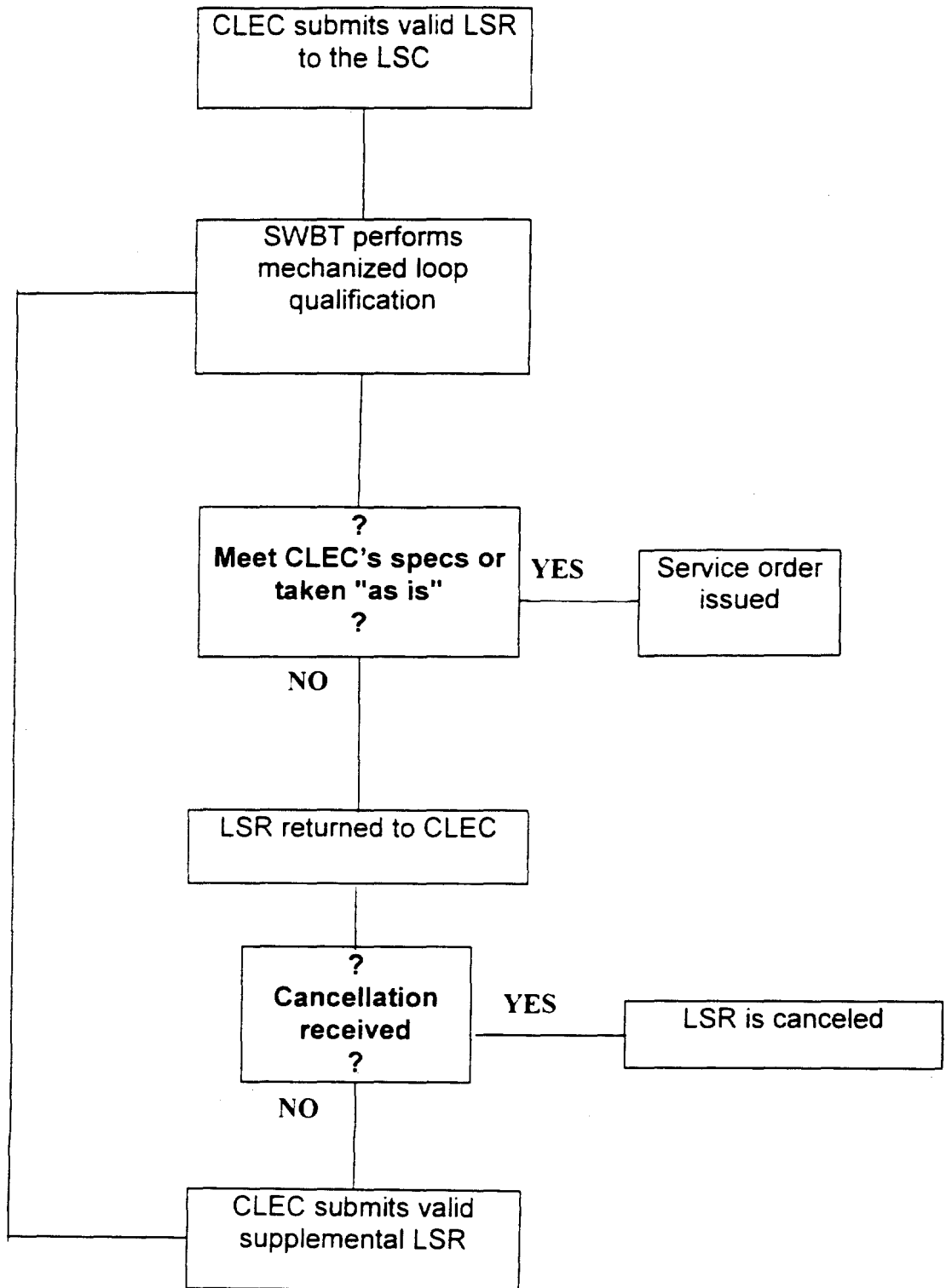
Orders will be handled in the same manner as before. If the requested loop meets the specifications listed by the CLEC on the LSR, an order will be issued. The LSC will not initiate a request for a manual loop qualification unless no information is available mechanically. (This should only occur in very rarely, if ever.)

CLECs may still use the "AS IS" option by utilizing the "UALNQX" SPEC code. Use of this SPEC code indicates the CLECs desire for SWBT to provision the loop regardless of whether the loop meets industry standards for the specified PSD.

Because CLECs will have the ability to view loop qualifications results at any time via their Verigate or DataGate interfaces, the LSC will no longer return loop qualification results as part of the one-step process.

An illustration of the new xDSL-capable loop order process follows:

### xDSL Capable Loop Order Process



## **LSR Requirements**

With the exception of the elimination of the tracking code, none of the LSR field entry requirements have changed. However, SWBT has provided new options for CLECs ordering xDSL capable loops for use PSD#5 (ADSL).

### *Shielded Cross Connect Options*

Shielded cross connects are optional with xDSL capable loops used for PSD #5 (ADSL family of technologies). In the past, SWBT has assigned shielded cross connects for xDSL loops used for PSD #5 whenever the CFA field indicated that the loop would terminate on a shielded interconnection cable. In order to provide greater ordering flexibility to the CLEC, the process is changing.

As of March 18, CLECs will indicate the type of cross connect desired (shielded or non-shielded) by the NCI code on the LSR. The SECNCI code will not change. The NCI codes for shielded and non-shielded cross connects are as follows:

Non-shielded cross connects	02DU9.005/02QB9.005
Shielded cross connects	02QB9.0S5

Either of these options may be used with any xDSL capable loop used for PSD #5. This will provide CLECs with the ability to choose shielded or non-shielded cross connects for loops terminating in both shielded and non-shielded interconnection cables.

### *Cooperative Acceptance Testing Option*

Some CLECs have incorporated terms for cooperative acceptance testing into their interconnection agreement. These CLECs may indicate their desire for cooperative acceptance testing by inputting a "Y" in ALBR (Additional Labor) field on the LSR and inputting "Cooperative Testing Requested" in the remarks section of the LSR.

# ATTACHMENT E

# Accessible



## **SOUTHWESTERN BELL – “Exception Request Initial Release Requirements for DataGate Local Pre-Ordering Release 10.0.x”**

Date: March 10, 2000

Number: CLECSS00-034

Contact: Southwestern Bell Account Manager

This Accessible Letter provides the Southwestern Bell Initial Requirements for a new DataGate Local Pre-Ordering release version 10.0.x. This release includes additional loop qualification functionality and will be available April 29, 2000. The previous release announced in Accessible Letter CLECSS00-24, on February 25, 2000 was identified as 10.0.x and is now categorized as release 11.0.x

This 10.0.x release is categorized as a regulatory mandated exception per the Change Management Process. This is in accordance with the decisions announced and accepted in the following arenas:

- 13-State Operational Support System (OSS) Digital Subscriber Line (xDSL) Plan of Record Collaborative sessions held February 1<sup>st</sup> and 2<sup>nd</sup> in Dallas, Texas
- Texas PUC Covad/Rhythms Arbitration Award Dockets 20226 and 20272
- In the Matter of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Third Report and Order and Fourth Further Notice of Proposed Rulemaking (FCC 99-238), (rel. November 5, 1999), modified by: Supplemental Order (FCC 99-370), (rel. November 24, 1999), (“the UNE Remand Order”).

Southwestern Bell will provide additional xDSL Loop Qualification pre-ordering functionality effective with this release. The following four processes are included in the xDSL loop qualification pre-ordering functionality:

- Design Data Inquiry/Response
- Actual/Design Data Inquiry/Response
- Manual Request Inquiry/Response
- Manual Results Inquiry/Response

Initial Requirements are included in the attachment. Customers may provide comments back to Southwestern Bell through March 17, 2000. Southwestern Bell will review the comments and provide responses with the Final Requirements on March 24, 2000. Testing will be available from April 24, 2000 through April 28, 2000. General Availability will be 12:01 a.m. on April 29, 2000.



**Important** – DataGate Version 7.0.x will be removed from the production and test environments on April 29, 2000. Effective on this date, Versions 8.x.x, 9.x.x and 10.x.x will be available in the production and test environments. Beginning July 2000, DataGate will maintain two active versions.

If you have questions, please contact your Account Manager.

Attachments

## LOOP QUALIFICATION

Southwestern Bell will provide additional xDSL Loop Qualification pre-ordering functionality effective with this release. This includes four processes, the Design Data Inquiry/Response, Actual Design Data Inquiry/Response, Manual Request Inquiry/Response and the Manual Results Inquiry/Response. Input Event 2600 will be utilized for all four inquiries with the specific input criteria defined in each process description. Output Event 2610 will be the response events for the Design Data Inquiry/Response, Actual Design Data Inquiry/Response and Manual Results Inquiry/Response. Output Event 2630 will be the response event for the Manual Request Inquiry/Response. The process descriptions are detailed in the loop qualification inquiry/responses below. The Input and Output Event structures follow the four process descriptions.

### • DESIGN DATA INQUIRY/RESPONSE

The Design Data inquiry/response is utilized to initiate a loop qualification inquiry for design data at a specified, validated address. The response returned provides only design model information for the address requested. This inquiry/response will provide a faster response than the Actual/Design Data inquiry/response because the design model information is pre-populated in an easily accessible relational database.

CLEC provides the following information for the Design Data loop qualification inquiry via Event 2600:

Required input fields are **lsp, userid, aecn, WC\_2\_CD, ST\_NBR, ST\_2\_NM, (UNIT\_ID, ELEV\_ID** and **STRUCT\_ID** only required when applicable), **CMTY\_2\_NM, QUALF\_REQ\_IND** (for the Design Data inquiry, **QUALF\_REQ\_IND = "D"**).

Optional input fields are **WTN, UNE\_PROD\_TYPE\_CD, CABS\_BA\_NBR**

Southwestern Bell provides all available information in the design model database via Event 2610. (See output structure below for fields in response)

### • ACTUAL/DESIGN DATA INQUIRY/RESPONSE

The Actual/Design Data inquiry/response is utilized to initiate a loop qualification inquiry for actual data at a specified address. The response returned provides actual data from the back-end systems when available. If actual data not available, the response will provide design model information. This inquiry/response will provide a slower response than the Design Data inquiry/response because of the additional search for actual loop qualification data.

CLEC provides the following information for the Actual/Design Data inquiry via Event 2600:

Required input fields are **lsp, userid, aecn, WC\_2\_CD, ST\_NBR, ST\_2\_NM, (UNIT\_ID, ELEV\_ID** and **STRUCT\_ID** only required when applicable), **CMTY\_2\_NM, QUALF\_REQ\_IND** (for the Actual/Design Data inquiry, **QUALF\_REQ\_IND = "A"**).

Optional input fields are **WTN, UNE\_PROD\_TYPE\_CD, CABS\_BA\_NBR**

Southwestern Bell provides all available information in the actual/design data base or if not available the design model information via Event 2610. (See output structure below for fields in response)

- **MANUAL REQUEST INQUIRY/RESPONSE**

If the loop information returned in the Design Data or Actual Design Data inquiries is not sufficient for the CLEC to make an ordering decision, an option is available to submit a manual loop qualification request. To submit a manual request for a specified address, an "M" is placed in the QUALF\_REQ\_IND field. The CABS Billing Account Number (BAN) may be included with this manual request for correct billing for manual request charges that are incurred. This request will be processed by engineering and may take several days to complete. An acknowledgement that this manual request was accepted will be returned as a response (Output event 2630) to the inquiry. In addition, after engineering completes the request, a completion notification will be returned to the CLEC via e-mail.

CLEC provides the following information for the manual request inquiry via Event 2600:

Required input fields are **lsp, userid, aecn, WC\_2\_CD, ST\_NBR, ST\_2\_NM, (UNIT\_ID, ELEV\_ID and STRUCT\_ID only required when applicable), CMTY\_2\_NM, QUALF\_REQ\_IND** (for the Design Data inquiry, QUALF\_REQ\_IND = "M").

Optional input fields are **WTN, UNE\_PROD\_TYPE\_CD, CABS\_BA\_NBR**

Southwestern Bell provides the following information with the manual request response via Event 2630:

**Output Event 2630:**

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Description</u>
RPLY_CD	opaque	5	Reply Code Y – The manual request has been received and is being processed. N – The manual request has been received, but the request cannot be processed at this time.
RPLY_MSG	opaque	256	Reply Message The manual request has been received, but the request cannot be processed at this time. Please contact the LSC.

- **MANUAL RESULTS INQUIRY/RESPONSE**

After receiving the e-mail completion notification for the manual request, the CLEC may submit a loop qualification inquiry by placing an "R" in the QUALF\_REQ\_IND field. This request will return the loop qualification information via the normal output event. The fields will be populated based on available data in the mechanized databases, which now includes the updated loop qualification results from the manual engineering process.

CLEC provides the following information for the manual results request inquiry:

Required input fields are **lsp, userid, aecn, WC\_2\_CD, ST\_NBR, ST\_2\_NM, (UNIT\_ID, ELEV\_ID** and **STRUCT\_ID** only required when applicable), **CMTY\_2\_NM, QUALF\_REQ\_IND** (for the Design Data inquiry, **QUALF\_REQ\_IND = "R"**).

Optional input fields are **WTN, UNE\_PROD\_TYPE\_CD, CABS\_BA\_NBR**

Southwestern Bell provides all available information from the manual engineering process via Event 2610. (See output structure below for fields in response)

## INPUT STRUCTURES

Due to changing xDSL product requirements, several enhancements to input event 2600 were necessary.

Updates to input event 2600 include the following: the **CKT\_3\_ID** field has been replaced by the **WTN** field and the **MAN\_QUALF\_REQ\_IND** field has been renamed to **QUALF\_REQ\_IND**, which allows input for one of the four processes of qualifications requested (D = Design Data Request, A = Actual Design Request, M = Manual Qual Request, R = Results from Manual Request). The input structure is listed below with enhancements noted in **RED** and **ITALIZED**.

### Input Event 2600:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Description</u>
<b>lsp</b>	opaque	4	CLEC name
<b>userid</b>	opaque	11	CLEC user's User ID
<b>aecn</b>	opaque	5	CLEC's Alternate Exchange
			Carrier Number
<b>WC_2_CD</b>	opaque	7	Combined NPANXX
<b>ST_NBR</b>	opaque	14	Street number
<b>ST_2_NM</b>	opaque	26	Street name
<b>UNIT_ID</b>	opaque	11	Apartment/unit/room/suite/lot/slip
<b>ELEV_ID</b>	opaque	11	Floor
<b>STRUCT_ID</b>	opaque	11	Building/wing/pier
<b>CMTY_2_NM</b>	opaque	37	Community
<b>WTN</b>	opaque	11	Working Telephone number (format: NPANXXline)
<b>UNE_PROD_TYPE_CD</b>	opaque	6	UNE Loop Power Spectrum Density – Identifies product type requested – Valid entries: PSD1, PSD2, PSD3, PSD4, PSD5, PSD7 or blank.
<b><i>QUALF_REQ_IND</i></b>	<i>opaque</i>	<i>2</i>	<i>Qualification requested</i> <i>Valid entries</i> <i>D - Design Data</i> <i>A - Actual Design Data</i> <i>M - Manual Request</i> <i>R - Manual Results</i>
<b>CABS_BA_NBR</b>	opaque	14	CABS Billing Account Number (optional for manual loop qual request)
<b>RESERVED</b>	opaque	13	Reserved for Future Use

## OUTPUT STRUCTURES

Due to changing xDSL product requirements, several enhancements to output event 2610 were necessary.

Updates to output event 2610 include the addition of the following fields: WC\_2\_CD, LOOP\_MEDM\_ADDR, LOOP\_MEDM\_CLLI\_ID, RMT\_SW\_UNIT\_TYPE\_CD, RMT\_TRML\_IND, RNGE\_EXTN\_IND, RNGE\_EXTN\_LOC\_CD, RSST\_ZONE\_CD, DISTURBER\_QTY\_NBR and RISK\_QTY\_NBR.

Also, the following the new aggregates have been added: RPETR\_AGGR, LOAD\_COIL\_AGGR, BRDG\_TAP\_AGGR, FN\_LNGTH\_AGGR, F1\_OTHER\_ADV\_SVC\_RISK\_AGGR, F2\_OTHER\_ADV\_SVC\_RISK\_AGGR and PLNT\_TYPE\_AGGR.

LOOP\_MEDM\_TYPE\_CD and DLC\_TYPE\_CD have changes in valid values.

The RESERVED, PR\_GAIN\_DLC\_IND and DAML\_IND fields have been removed. The Pair Gain and DAML information will be provided in the LOOP\_MEDM\_TYPE\_CD field.

The output structure is listed below with enhancements noted in RED and *ITALIZED*.

### Output Event 2610:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Description</u>
QUALF_ST_CD	opaque	11	overall qualification status. values: 'RED', 'GREEN', 'YELLOW', 'NO_AVAIL', 'ERROR' or blank
UNE_PROD_TYPE_CD	opaque	6	UNE Loop Power Spectrum Density – Identifies product type requested – values: PSD1, PSD2, PSD3, PSD4, PSD5, PSD7 or blank.
TPR_CD	opaque	7	reference number that identifies the loop (cable/pairs) between the central office and a serving terminal
WC_2_CD	opaque	7	Wire Center Code NP.1-XXX for this address
EQ26_LOOP_LNGTH_NBR	opaque	6	26 gauge equivalent loop length (in kilofeet)
LOOP_TYPE_CD	opaque	2	loop type indicates the process that was utilized to determine the loop information: A - indicates loop information provided is derived from actual information B - indicates loop information is determined by design models
LOOP_LNGTH_NBR	opaque	12	loop length (in kilofeet) without the application of 26 gauge conversion factors
LOOP_LNGTH_GAUG_19_NBR	opaque	6	loop length (in kilofeet) for 19 gauge loop if present
LOOP_LNGTH_GAUG_22_NBR	opaque	6	loop length (in kilofeet) for 22 gauge loop if present
LOOP_LNGTH_GAUG_24_NBR	opaque	6	loop length (in kilofeet) for 24 gauge loop if present

<b>LOOP_LNGTH_GAUG_26_NBR</b>	opaque 6	loop length (in kilofeet) for 26 gauge loop if present
<b>RPETR_AGGR</b>	<b>RPETR_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no repeaters present)
<b>LOAD_COIL_AGGR</b>	<b>LOAD_COIL_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no load coil present)
<b>BRDG_TAP_AGGR</b>	<b>BRDG_TAP_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no bridged tap present)
<b>BRDG_TAP_LNGTH_NBR</b>	opaque 6	length (in kilofeet) of total bridged tap associated with the loop
<b>FN_LNGTH_AGGR</b>	<b>FN_LNGTH_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no length present)
<b>F1_DISTURBER_AGGR</b>	<b>FN_DISTURBER_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no disturber present)
<b>F2_DISTURBER_AGGR</b>	<b>FN_DISTURBER_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no disturber present)
<b>F1_OTHER_ADV_SVC_RISK_AGGR</b>	<b>FN_OTHER_ADV_SVC_RISK_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no risk present)
<b>F2_OTHER_ADV_SVC_RISK_AGGR</b>	<b>FN_OTHER_ADV_SVC_RISK_AGGR &lt;&gt;</b>	repeats 0 to n times (0 indicates no risk present)
<b>DLC_TYPE_CD</b>	opaque 12	type of DLC: example (SLC96)
<b>LOOP_MEDM_TYPE_CD</b>	opaque 2	type of loop medium values: A - indicates Copper B - indicates Pair Gsm DLC C - indicates DLC Copper D - indicates FTTC E - indicates D-AML
<b>LOOP_MEDM_ADDR</b>	opaque 255	address of the remote device specified in the loop medium field
<b>LOOP_MEDM_CLLI_ID</b>	opaque 12	CLLI of the remote device specified in the loop medium field
<b>RMT_SW_UNIT_IND</b>	opaque 2	indicates that loop originates at a Remote Switching Unit (RSU) Values: Y - YES or blank
<b>RMT_SW_UNIT_TYPE_CD</b>	opaque 12	indicates the type of Remote Switching Unit (RSU). Example - RSS

<b>RMT_TRML_IND</b>	opaque 2	indicates that loop originates at a Remote Terminal Values: A – ADSL capable RT B – non-ADSL capable RT or blank
<b>PLNT_TYPE_AGGR</b>	<b>PLNT_TYPE_AGGR</b> < n	repeats 0 to n times
<b>RNGE_EXTN_IND</b>	opaque 2	indicates the presence of a range extender on the loop values: Y – YES or blank
<b>RNGE_EXTN_LOC_CD</b>	opaque 3	location of range extender values: A – indicates Central Office
<b>RSST_ZONE_NBR</b>	opaque 3	resistance zone of the loop specified in ohms (hundreds), example – value of 13 equates to 1300 ohms



## DETAIL FOR OUTPUT EVENT 2610 AGGREGATES

### **RPETR\_AGGR**

<b>RPETR_LOC_LNGTH</b>	<i>opaque 6</i>	<i>length (in kilofeet) of each occurrence of repeater from the central office</i>
<b>RPETR_TYPE_CD</b>	<i>opaque 9</i>	<i>indicates the type of repeater on the loop</i>

### **LOAD\_COIL\_AGGR**

<b>LOAD_COIL_LOC_LNGTH</b>	<i>opaque 6</i>	<i>length (in kilofeet) of each occurrence of load coil from the central office</i>
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### **BRDG\_TAP\_AGGR**

<b>BRDG_TAP_LOC_LNGTH</b>	<i>opaque 6</i>	<i>length (in kilofeet) of each occurrence of bridged tap from the central office</i>
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### **FN\_LNGTH\_AGGR**

<b>FN_SEG_NBR</b>	<i>opaque 3</i>	<i>indicates the segment of the loop (F1 through F9)</i>
<b>FN_LNGTH_NBR</b>	<i>opaque 6</i>	<i>indicates the length (in kilofeet) of each segment of the loop between the central office and the customers serving terminal</i>

### **FN\_DISTURBER\_AGGR**

<b>DISTURBER_TYPE_CD</b>	<i>opaque 2</i>	<i>disturbers within the cable which interfere with the DSL signal.</i> <i>A - indicates Reserved T1</i>
<b>DISTURBER_LOC_CD</b>	<i>opaque 2</i>	<i>identifies the proximity of the disturber within the cable</i> <i>A - adjacent binder group</i> <i>B - same binder group</i>
<b>DISTURBER_QTY_NBR</b>	<i>opaque 5</i>	<i>quantity of disturber type (i.e. T1) found for the disturber location (i.e. adjacent) in the disturber aggregate</i>

### **FN\_OTHER\_ADV\_SVC\_RISK\_AGGR**

<b>RISK_TYPE_CD</b>	<i>opaque 2</i>	<i>other advanced services risk within the cable which interfere with the DSL signal.</i> <i>A - indicates HDSL</i> <i>B - indicates ISDN</i> <i>C - indicates DSL</i> <i>D - indicates ADSL</i> <i>E - indicates Other thicap)</i>
<b>RISK_LOC_CD</b>	<i>opaque 2</i>	<i>identifies the proximity of the disturber within the cable</i> <i>A - adjacent binder group</i> <i>B - same binder group</i>

**RISK\_QTY\_NBR**

*opaque 5*

*quantity of risk type (i.e. HDSL) found in the risk location (i.e. adjacent) in the risk aggregate*

**PLNT\_TYPE\_AGGR**

**FN\_SEG\_NBR**

*opaque 3*

*indicates the segment of the loop (F1 through F9)*

**GAUG\_NBR**

*opaque 3*

*indicates the gauge of the loop*

**PLNT\_TYPE\_CD**

*opaque 2*

*indicates the type of plant values:*

*A - indicates Aerial*

*B - indicates Buried*

*C - indicates Underground*

**PLNT\_LNGTH\_NBR**

*opaque 6*

*indicates the length of loop by plant type, by gauge, by segment*